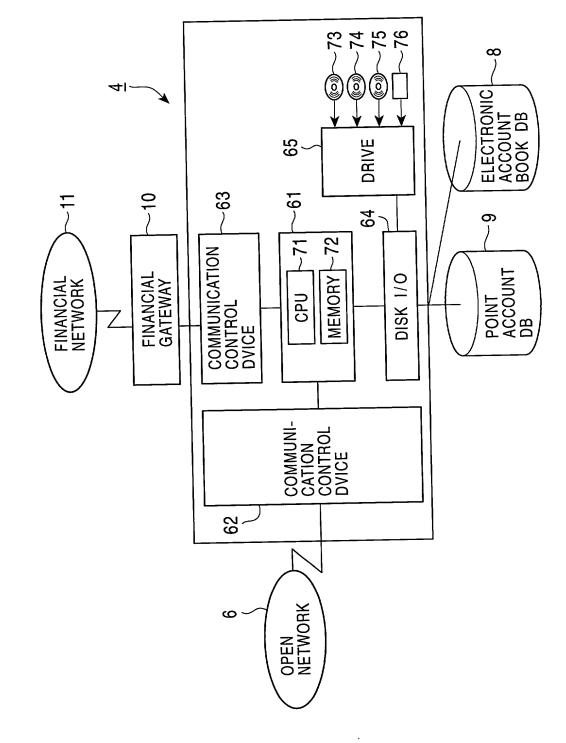
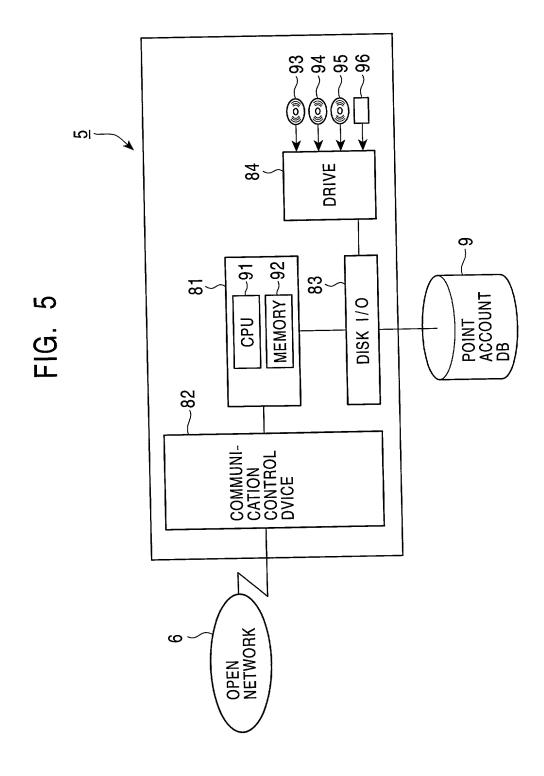


FIG. 4





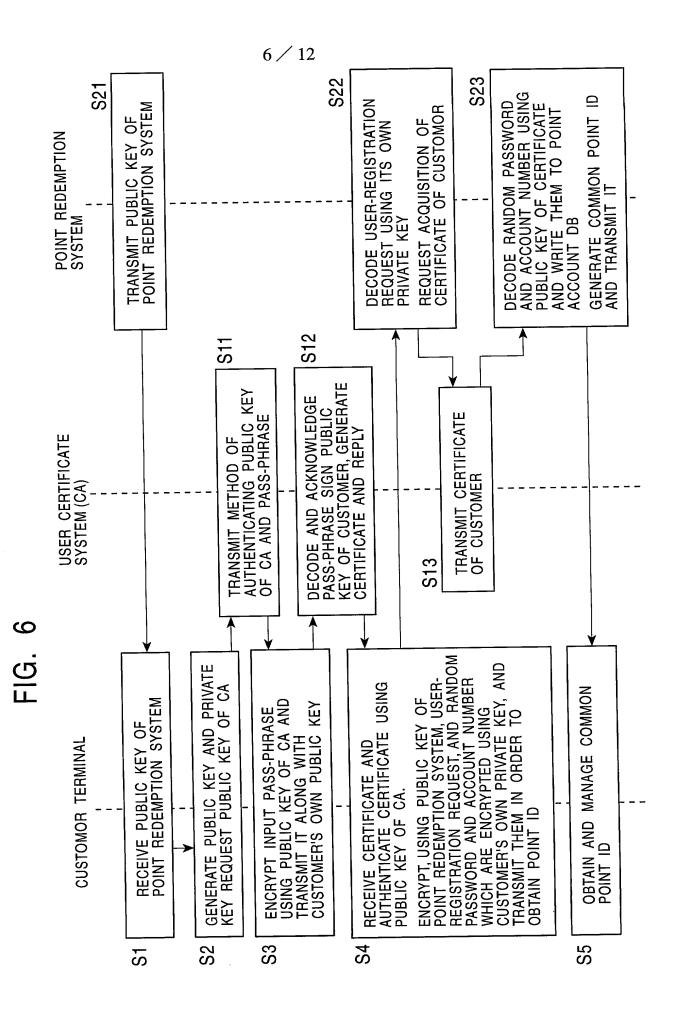


FIG. 7

CUSTOMER PUBLIC KEY KP1 CERTIFICATE -

CUSTOMER PUBLIC KEY KP1

ENCRYPTION USING PRIVATE KEY K<sub>S3</sub>\_OF USER CERTIFICATE SYSTEM

HASH VALUE OF CUSTOMER PUBLIC KEY K<sub>P1</sub>

FIG. 8

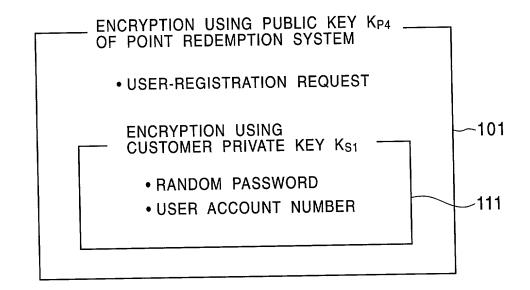


FIG. 9

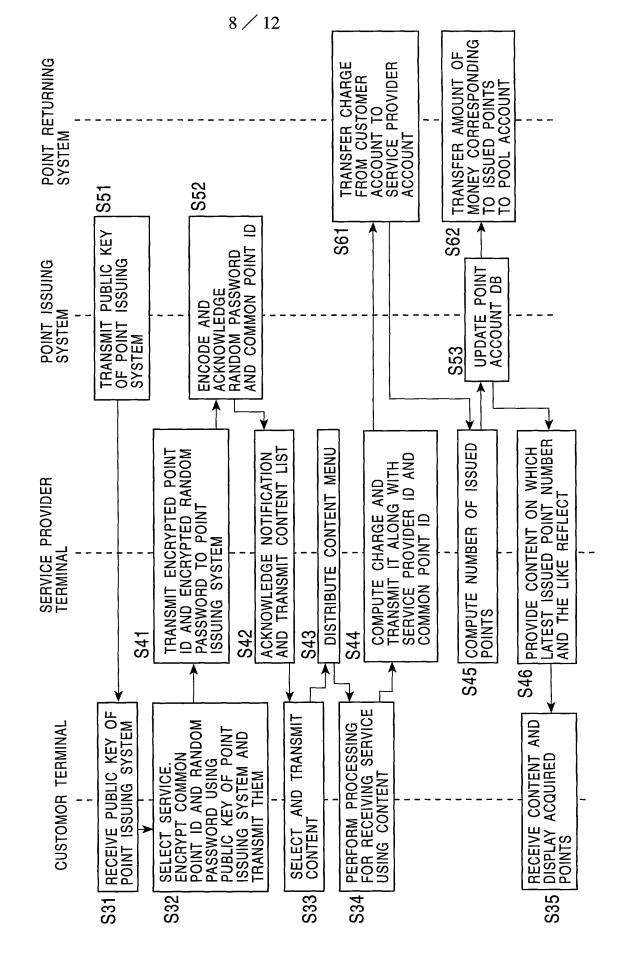


FIG. 10A

ACCOUNT NUMBER	5671234	
FINANCIAL INSTITUTION ID	0003	
SERVICE PROVIDER ID	0001	

FIG. 10B

 		_	_	 T	 	1	
REDEMPTION RATE	_	0.0					
SERVICE PROVIDER ID	7000	1000					
EXPIRY DATE		20000731					
DATE OF ACQUISITION EXPIRING DATE		19990801					
NUMBER OF ACQUIRED POINTS		200					
ACCOUNT NUMBER		1234567					
FINANCIAL INSTITUTION ID		100001001 XXXXXX 0002					
PASS- WORD		XXXXX					
COMMON POINT ID		10001001					

FIG. 11

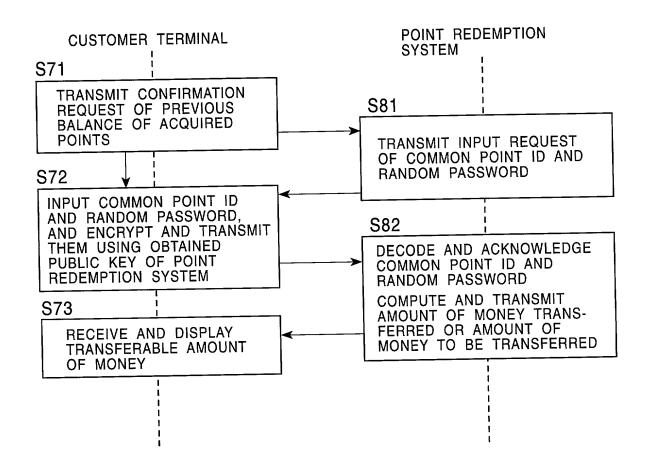


FIG. 12

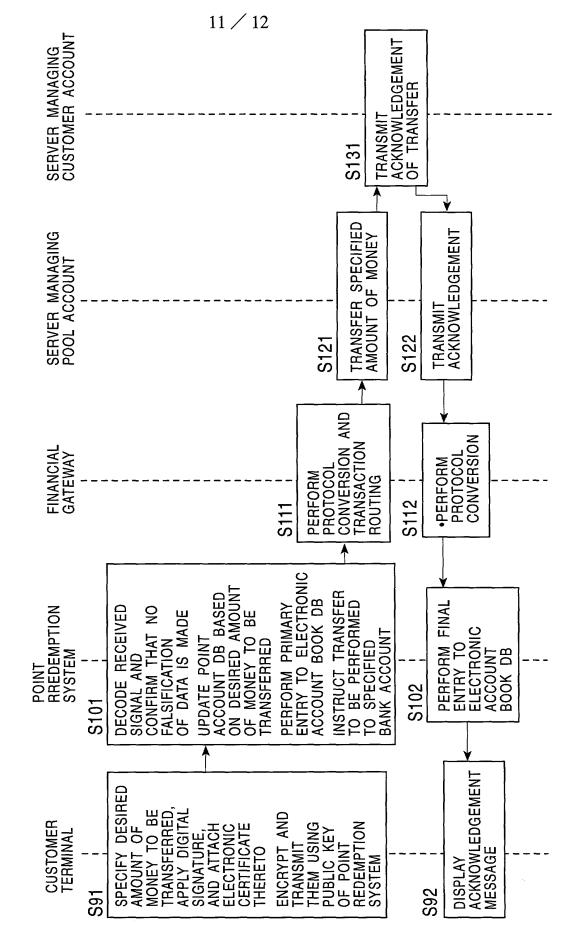


FIG. 13

COMMON POINT ID	CUMULATIVE POINTS BEFORE TRANSFER	TRANSFER DATE	POINTS TRANS- FERRED	REMAINING POINTS	
100001001	16500	19990830	15000	1500	

FIG. 14

PRIMARY ENTRY DATE	FINAL ENTRY DATE	COMMON POINT ID	POINTS TRANS- FERRED	AMOUNT OF MONEY TRANS- FERRED	REDEMPTION RATE	
19990529	19990530	100001013	10000	8000	0.8	
19990530	19990531	100001021	5000 4000		0.8	